

040136 – Permit History and Changes Description

Permit 040136 was initially issued to Hickman's Egg Ranch located at 32425 West Salome Highway in February 2005. Equipment included in the permit was a crematory to dispose of hen carcasses and 7 emergency generators that provide electricity during power outages. The permit has undergone multiple modifications since the original issuance. The permit was first modified in March 2011 to install a gasoline storage tank and additional emergency generators and remove the crematory from service.

In May 2012, the permit was renewed and modified to install a feed mill. The next modification was in June 2012 to install a grain receiving and storage operation. In August 2013, the permit was again modified to include three new emergency generators. The second renewal occurred in August 2014 during which time the permit was modified to include three additional emergency generators.

This brings us to the most recent modification . Changes proposed in this application are:

1. Add a propane -fired drum dryer with baghouse to produce fertilizer from chicken waste
2. Add an emergency engine
3. Remove the grain mixing operation from the permit

Emissions from the dryer and emergency engine are combustion by - products (NO_x, CO and VOC). Particulate emissions from the baghouse

and the baghouse itself are not included in permit since the Arizona Department of Environmental Quality has exercised jurisdiction over particulate-generating operations under the authority of the Agricultural Best Management Practices previously noted. For the same reason, the grain mixing operation has been removed from the permit. To accommodate the new generator, annual usage limits for all generators were reduced from 360 hours per year to 355 hours per year.

Emissions changes from this modification are: NO_x increased 591 lbs/yr
CO increased 2,287 lbs/yr
VOC decreased 132 lbs/yr

Total site-wide emissions from point sources are: NO_x – 49,869 lbs/yr
CO – 25,212 lbs/yr
VOC – 11,219 lbs/yr